

Found 1st. with some.
25

52

4th Street

Dr. Stejneger
Smithsonian Institution
Washington D.C.

No 2000. *Sitta pygmaea* - ♂ ad.
St Frisco Mts. Little Spring. 8200' Arizona
Sept. 8, 1889.

Another of same species ♀ ad.
Same locality and date.
measured Total length 107 mm
Diam. of eye 2.5 mm

A *Turdus auduboni* (sex indisting. juv.)
same locality and date measured
total length 187 mm; eye 4.25 mm

~~Sept. 9.~~ Trip to Grand Cañon.

Ph. 1. - "The Vanguard". Sun behind small
cloud. inst 5. From Buckboard. 4 pm

Ph. 2. do. do

Sept. 10. Ph. 3 Breakfast in camp. Bright sun.
inst 1 - 8 am.

Ph. 4. Packing up. To. 51

Ph. 5 "The main body" bright sun.

inst 5. from Wagon. 11 am.

Ph. 6. do. do.

Ph. 7 Old ^{Navajos} Indians. Red Horse Spring. bright sun.

inst 1. - 2 pm.

Sept. 11. (Camp. Cañon Spring. 7500').

Ph. 8. View of Grand Cañon of the Colorado. Bright

sun. inst. 5. - 10.15 am.

Ph. 9. Do. do. inst. 1, same view as 8.

Ph. 10. Do. do. inst. 1. view to the right of 8 & 9.

Ph. 11. Do. do. inst 5 same view as 10.

Ph. 12 Do. do. inst 3. view between the 8 & 10.

Ph. 13 Do. to left of 8. ^{inst. 1.} partly cloudy 4.40 pm

Ph. 14 Do do inst. 5. do

15. X X X. Roll-holder slipped from camera or plate light struck. perhaps all foregoing also.

Ph. 16 = 14 inst 5.

Ph. 17 = 13 " 1

Ph. 18 = 12 inst. 1. 4.45 pm.

Ph. 19 = 10 inst. 1. "

Ph. 20 = 8 " "

Sept. 12. (Camp. Cañon Spring

Ph. 21. Do. do. from slightly different standpoint. Partly cloudy. Rain in background. inst. 5. 2.30 pm.

Ph. 22. Do. do. inst. 5.

Ph. 23 From a point further west looking west. inst. 5.

Ph. 24 Do do. inst. 1.

Ph. 25 Do looking N.E. inst. 5. 1.

Ph. 26 Do do. inst. 5.

Sept. 13. - (Camp.)

Descriptions of colors of lizards brought back by Dr. Merriam from the Grand Cañon.

(1). "Altit. about 3500 ft." "Sept. 12. 1889" ^{dark} *Sceloporus*
15850 Above drab gray with ^{an} indistinct, zigzag
lines of lighter color one scale wide

across the back gradually arranging
into ^{32 regular} cross bands across the tail, the
darker ones occupying 2 to 3 scale rows, the
lighter interspaces one scale row less; head
and upper neck suffused with light
ochre; most dorsal scales edged with
orange red, a few of the lighter ones
being bright yellow along the keel
especially those ~~back of~~ bordering the
blackish shoulder patch behind; legs
above like tail, but ^{dark} cross bars on fore
legs nearly obsolete; three blackish, but
ill defined and somewhat indistinct
patches on the loins; ~~whole~~ under surface
silvery white with some golden green
on the flanks.

(2) "Alt. about 3000 ft" "Sept. 12, 1889" Sceloporus,
15849. ^{Clarkii juv.}

Head ~~and neck above brownish drab~~
dark brownish gray, the snout lighter

with a regular pattern of greenish
white forming an X shaped figure
following the inner edge of the super-
ocular region, and a spot of similar color
with a black central dotlet on the
middle of the occipital; sides of head
and upper neck brownish drab, with
a few dusky spots on the upper
mandible; a narrow blackish brown
streak from lower part of eye back
over the upper corner of the ear opening;
a similar semilunar streak parallel
with the head shield on the upper neck;
rest of upper parts ^(of body and limbs) drab gray with
well defined black spots and cross
bars, the ~~latter are~~ light ~~scales~~
scales bordering the black ones on
the sides of the anterior back
tinged with ochraceous; the shoulder
patch particularly black, well defined

and connected across the neck
with the one of the opposite ~~side~~
side; under side white, silvery
anteriorly, with a pale brassy gloss
from the lower breast backwards;
lower eye lid sky blue.

(3) "1" "Hid. about 3000 ft.; Sept 12 '89" Uta
15847 *Uta stansburiana*?

Above coppery drab with three longi-
tudinal series of indistinct brown
spots along the back which is speckled
all over with numerous blueish white
specks from 1 to 3 scales large; tail
somewhat gray with faint cross
bars of a slightly darker color
and a longitudinal dusky spot along
the median line of each of the ~~anterior~~
darker cross bars of the anterior half;
legs with faint dusky cross bars;
head more rusty on the crown inclining

to greenish bronze on supercilia and
portion between them; snout dusky;
under side whitish, flanks inclining
to greenish; chin and throat sky blue
with faint dusky markings.

(4) "2" Do. do. Same species.
15846

Similar to above.

(5) "3" Do. do. do.
15845

Similar to foregoing ones, but back
with less light speck, but with
numerous dusky dots particularly
noticeable on the upper neck; whole
head uniform coppery drab; cross bars
on tail more distinct; chin and
throat whitish, slightly suffused
with blueish and marked with
purplish gray; upper and lower mandibles

suffused with pale salmon color

aremicolor
(6) "Hyla" "Grand Cañon, Ariz. Sept. 13, 1889
16189 C. St. Merriam. Alt about 3500 ft."

Above uniform frosted silvery, irregularly overlaid with a faint golden gloss, more brassy on tympana and sides of face; iris pale brassy with black marblings; faint traces of dark cross bars on limbs, the light interspaces being pale golden; under side whitish, ~~feet~~ suffused with pale ^{bluish} greenish on mentum and middle of breast and belly (stronger on the latter parts) and ^{with} pinkish ~~and~~ on fore neck; flanks posteriorly as well as inside of limbs bright and deep gamboge yellow, under side of thighs as well as sides of belly more brownish orange; discs pale orange

pink.

(7) Lizard coll. by Bailey, near
15838 Uta ~~ornata~~ symmetrica
bottom of Grand Cañon. "4"

General color above grayish drab, more pinkish on the tail and along the middle line, with a series of 8 "herring bone" cross bars of dusky growing paler behind and including a lighter spot on the middle line; the 6 anterior crossbars are bordered behind by a narrow black line, and all both in front and behind by a whitish one, broader behind than in front; on the sides several rows of indistinct pale spots, many of them bordered anteriorly by dusky; a narrow dusky line across the head between the eyes; an indistinct dusky line from nostrils through eyes to above ear; legs and tail indistinctly cross banded by the ground color with lighter irregular intervals; under side

whitish with an emerald green elongated spot on each side of the breast, and a more yellowish one on the middle of the throat. In alcoholic specimen (Apr. 10 '90) the green of the sides is faint sky blue and the yellow of the throat has disappeared.

(8) "5" Do do. Same species.
15849. Uta ~~ornata~~ ^{symmetrica}
like the above but somewhat darker and pattern more distinct, no green on sides of breast, and with the spot on throat pinkish yellow. (disapp. in alcoholic)

(9) "6" Hyla ^{arvicolor} Same loc. & collector. Sept. 13.
16191
like the one coll. by Dr. M. descr. above, but less metallic and more of a clayey color, except tympanum which is coppery; discs more purplish pink.

(10) "7" Hyla ^{arvicolor} Do do do. like above.
16192
Webs of hind feet in all bright gamboge yellow.

(11) "8" Hyla ^{arvicolor} Same species, coll. & loc.
16190
Clayey above with numerous slightly darker spots, and well marked cross bars on limbs of same color; throat mentum dark purplish gray with whitish dots; labial margins whitish; breast which belly bluish gradually merging into yellowish behind; inside of legs bright gamboge yellow, thighs underneath more brown speckled with whitish; discs pale flesh color.

(12) "9" Bufo ^{punctatus} Near bottom of cañon
16185
about 2500 ft alt. Bailey coll. Sep. 13, 1889.

Above greenish ^{malachite} pea green densely speckled with small bright vermilion specks, limbs more whitish, likewise speckled with red and like the flanks likewise speckled with minute black specks; nostrils black; iris brassy marked

with black; upper labia and under surface bluish white, irregularly speckled with black.

lower belly and underside of thighs dark brownish flesh color; soles dull orange.

No 3001 -- Stones and soil to illustrate protection mimicry of Phrynosoma no H. 136. (color sketch no 3) collected at the same spot as the animal, at Cañon Spring, edge of (7500') Grand Cañon of Colorado, A.T. Sep. 12 1889.
Sept. 14. (Camp.

Ph. 27. Down the cañon 9-30 am
bright sun inst. 1.

Ph. 28 Do from higher up the trail;
^{upright (5x4)}
~~lengthwise~~; Douglas pine in center; inst 1.

Ph. 29 X (safety opened before cooking!)

Ph. 30 = 28.

Ph. 31 Collecting cones & under difficulties.

Do do. do. ~~up~~ lengthwise (4x5)

Ph. 32 'The Monument' from upper portion

of trail. 5x4. Do. do. do.

No. 3002 -- Dendroica nigrescens ♂ ad.

Grand Cañon Spring, A.T. - Sep. 14, 1889.

T.L. 130 ^{mm} diam. eye 2.2 ^{mm}

Iris dark brown; bill and feet blackish plumbeous; soles whitish.

No. 3003. -- Parus gambeli ♂

Grand Cañon Spring, A.T. Sep. 14, 1889

T.L. 133 ^{mm}; diam. eye 3 ^{mm}.

Iris dark brown; bill black; feet blueish plumbeous. -- Mottling all over.

No. 3004. Zonotrichia leucophrys ^{intermedia?} ♂

Grand Cañon Spring, A.T. Sep. 14, 1889.

T.L. 180 ^{mm}; diam. eye 4 ^{mm}.

Iris hazel; bill brownish yellow, lower mandible & yellower, upper one with dusky tip; feet horn brown.

Merriam's coll. No. — Vireo plumbeus

Grand Cañon Spring, A.T. Sep. 14, 1889.

T.L. 140 ^{mm}; diam. eye 3.5 ^{mm}.

Iris very dark brown; upper mandible
dusky plumbeous, lower pale bluish
plumbeous, tibia nearly whitish;
feet ~~pale~~ bluish plumbeous

Ph. 33. About same view as 10, or
perhaps 12. Sun, clear, somewhat
hazy, especially distance. inst. 1. - 5.45 pm.

No 3005. Loxia stricklandi ♂

Cañon Spring, A.T., Sep. 15, 1889.

T.l. — mm; diam. eye — mm

Feet horny brownish gray.

Knowlton No. — Melanerpes torquatus. ♂

Cañon Spring, A.T., Sep. 15, 1889.

T.l. 275 mm; diam. eye 5 mm

Iris hazel; bill blackish plumbeous,
pale at base of lower mandible;
feet pale bluish plumbeous.

Sep. 16. Grand Cañon Spring

Photo 34 "Sunday Morning Devotions" inst 1. - 9.30 am

Ph. 35 do. do. inst. 3. do.

Sep. 19. Little Spring Camp. S. Francisco Mts.

Ph. 36 Camp. inst. 1. sun 1.45 pm.

Ph. 37 do. inst. 3 do.

Ph. 38 Merriam's tent inst. 1 do.

Ph. 39 Knowlton's do. time 1/2 sec. fast clouded.

Ph. 40 ?? 00 ? Turned me eyes ahead, perhaps?

~~Ph. 41~~

No. 3006. Troglodytes aedon aztecus — O.

Little Spring, S. Francisco Mt. 8200' alt., Ariz.

Sep. 19, 1889.

Total length 118 mm. diam. eye 3.5 mm.

Iris hazel; bill dark horny brown,
lower mandible, except tip, flesh color;

feet horny brownish gray. Molting all over.
Sept. 20.

No 3007. Ceuthia Troglodytes aztecus ♂

Little Spring, S. Francisco Mt. 8200' alt. Ariz.

Sep. 19, 1889.

iris T.t. — ^{mm.}; diam. eye — ^{mm.}

iris like male; bill do.

H. 135 Amblystoma tigrinum (not latro)

16179. Little Spring, S. Francisco Mt. Ariz.

Sep. 19, 1889. — 8200' alt.

Found wriggling in the ashes
by the campfire in the evening,
evidently ~~fallen~~ from one of the
logs which were gathered in
the immediate neighborhood of
the camp. — Color sketch 2:

Dark and light colors of the
body same as shown in the
head; under side, except tail,
pale yellowish gray; four patches
of two tinges with pinkish; skin
of back somewhat darker than head.

H. 136 Phrynosoma hernandesi

15724 Colorado Canon Spring, Ariz. 7500'

Sep. 12, 1889.

Color sketch 3.

Stones to illustrate mimicry = No. 3001.

Under side whitish, ^{on body} with orange

and bluish ^{gray} specks which are

most dense on chin and throat

so as to nearly conceal the ground

color; across the fore neck a collar

of bright brownish orange.

No. 3008. Sciurus

♂

Camp Little Spring, 8200', San Frisco Mt.

Sep. 20, 1889.

T.L. 305 ^{mm.}; Tail 123 ^{mm.}; hind foot 50 ^{mm.}

No. 3008 a skull of 3008.

No. 3009 Melospiza lincolni ♀

Camp Little Spring, 8200', S. Frisco Mt. Ariz.

Sep. 20, 1889.

T.L. 138 ^{mm.} diam. eye 3 ^{mm.}

Iris dark brown; bill horny brownish
slate, paler along Tarsus and at base of
lower mandible; feet pale horny brown.

No. 3010. Sitta pygmaea ♂

Camp Little Spring, S. Frisco Mt., Ariz.

Sep. 21, 1889.

Tl. 115 mm; length of eye 2.5

Eye Iris dark brown; bill blackish
slate, except basal half of lower
mandible which is bluish white;
feet dark olive gray; soles yellowish.

No. 3011 Tamias quadrivittatus ♂

cimericollis Allen.

Little Spring, S. Frisco Mt., Ariz.

Sep. 21, 1889.

Tl. 220 mm, tail 101 mm, hind foot 34 mm
No. 3011 a. Skull of same

No. 3012 Tamias quadrivittatus ~~fasciatus~~
♂ lateralis

~~Little Spring~~ Crater Lake, S. Little Spring,

S. Frisco Mt. Ariz. Sep. 22, 1889.

Tl. 258 mm, tail 95 mm, hind foot 39 mm

No. 3012 a. Skull of same.

No. H. 137, Phrynosoma hernandesi

15725 Hull's Spring (between Little Spring,

S. Frisco Mt & Cañon Spring, Ariz.,

'alt.') Sep. 17, 1889.

Color sketch 4.

Darker spines as well as tips of
most spines on the retromitris
and tail white, more or less
tinged with bluish green; tips of
spines on body mostly of the
latter color, except the large ones
in the dark patches; under side
whitish, scales anteriorly (basally)
orange, those of the body with
minute gray dots, which are
collected in larger spots, densest
on skin and throat. Collar brownish
orange. — Spec. illustr. minimum = 3013

No. 3013. Specimens from Hull's Spring, illustrating minimum
of tinging no.

Sep. 24, 1889, Little Spring.

Pl. 41 Skinning tent, L.S. - inst. 1.

Bright sun; 1:30 pm.

Pl. 42 Camp after moving. do. do.

Pl. 43 S. Francisco Mt. from Dr.

Morr. tent door, 5x4. Inst. 1.

Pl. 44 Water troughs, Little Spring, inst. 1.

Pl. 45 Arizona River do. do.

Panorama from Walker Lake Crater, highest point of rim (inst. 3. - 3:30 pm) light blue.

Pl. 46 X X (2 or 3 on one plate?)

Pl. 47 San Francisco Peak.

Pl. 48 —

Pl. 49 —

Pl. 50 — (Hendrick peak in lower right corner)

Pl. 51 Hendrick Peak (to the left).

Pl. 52 X X (Holly not closed when better color)

Pl. 53 Same — same

Pl. 54 —

Pl. 55 —

Pl. 56 — rim of crater

Pl. 57 — S. Fr. peak in right hand corner;

the tree in the middle, same as

the one in photograph left in Pl. 47

Pl. 58 Walker Lake with S. Fr. Peak in background, from rim of crater.

inst. 3. - 3:45 pm. 5x4.

Pl. 59 do do.

Pl. 60 "Half blown rose" at the well.

inst. 1. 4 pm.

Pl. 61 "The fairy's cabin" (Hochdoffer). do. do.

Pl. 62 O. O. O. ?

No H. 138. — Sceloporus carolinensis

15739 Cedar Mt., half way between Cañon Spring and Little Spring, (tri). about 6500 feet alt.

Sep. 17, 1889

Color of belly patches emerald green passing into brilliant blueish green towards the black line; neck patches even blueish than those of flanks.

to Mon Copie, Sep. 22, 1889.

Iris ^{brassy} heavily obscured by
dark mottlings except narrow
inner ring which is bright metallic.
Under surface bluish white,
^{inner} abdomen and ^{inner} under side of portico
retroverted pale brownish yellow,
palms brown, ^{inner} under surface
of out. limbs pinkish.

"12" - Color Sketch 6. - Lipid from w. of
15824 *Campoplex marcani*
Little Colorado River (among the mountains) Sep. 26 '89

Under surface pale greenish
white, palms slightly pinkish,
tail under nearly white. Tongue
deep pink; pharynx blackish carmine;
palate ultramarine blue. Iris
brassy greenish yellow

No 3014. *Outeo calurus* ♂ ad
Little Spring, S. Frisco Mt. Ariz.
Sep. 27, 1889.

Iris ^{medium} dark brown. Bill dark
honey ^{plumbeous} ~~black~~, ~~flat~~ pale, non
greenish brownish base of lower
mandible; cere yellow; feet
yellow, claws dark honey plumbeous.
T.L. 550 ^{mm} ^{page} 13 ^{mm}

No 3015 *Passerella schistacea* ♂
San Francisco Mt., Ariz., 9000'
Sep. 29, 1889.

Iris brown; bill dark honey
plumbeous, basal half of lower
mandible yellow; feet violet
brownish gray.

"13" *Phainopepla nitens* ~~nitens~~ *hernandezii*
"3" 15815
W. of Little Colorado R., among
black lava. Sep. 26, '89

Ground color of upper ^(including head) bill, dusky
black; light markings on median
third of body, ^{dull} "maples yellow" ^{abruptly} ^{gradually}
into the yellow ochre of those of the sides; tips of
most lateral spines white; those of few longer
ones on head mottled with ochre; under side plumbeous
blackish; ^{advent} light olive yellow

Remark in re to the Phryganomus
collected by Dr. Merriam
in the ~~summer 1889~~ ^{autumn} ~~in the~~ ^{from the}
immediate neighborhood of St. Fran-
cisco Mt., ^{and} to the Grand Cañon
of the Colorado have the head
colored as in the (then first)
color sketch of Ph. viz, the an-
terior portion of a greenish
gray gradually grading into a
brunish red on the large occipital
spines, while those from the
Painted Desert ^(from lower trip) that are ^{a yellowish} brown
have the head similarly and
almost uniformly colored, and the
black specimen from the lava
belt "No. 4", has the head black like
the rest of the body, except the bases
of the spines which are yellowish.

No. 306 - Duck Cave to illustrate
the color mimicry of the black
Phryganomus "13" Merriam.

No. 307. Moths.

Little Spring, S. Frisco Mt., Ariz.

Sep. 30 '89. - Found dead.

No. 3018 Anthus pensilvanicus ♂

S. Frisco Mt. Ariz. 9000'

Sep. 25 '89 (known to skinned).

Photos from the Ducklar Ranch,
Hart Spring, Ariz. Oct. 1, 1889, 11:30 am.

Ph. 65 Readjusting the Pack.

Ph. 66 S. Francisco & Agassiz's Packs
from in front of the house.

Ph. 67 Bill Williams & Lygman's Packs
from same.

Ph. 68 The Ducklar house.

Ph. 69 Jack and Jennie (Mumms).

Ph. 70 The avianomic Mormon and his
family.

Ph. 71. A shot at the swimming member.
under

Ph. 72 Xagass, Peak, S. Frisco Mts.

Ariz. from 1/2 mile north of

Flagstaff. - 4.30 pm. inst. 1. Sun.

Last picture and rest of page
spoiled by reloading holder in
broad daylight.

Oct. 3. - New roll American
Film. (420) put in at night
by lamp light so first two plates
spoiled (No coil wound in darkness).

Ph. 73 (marked on plate) } Spoiled. X.

Ph. 74
under

No H. 140. Sceloporus Uta

15729.

Pin of Walnut Canon, 8 miles ~~xxx~~

S.E. of Flagstaff, Ariz. 7000' alt.

Oct. 2. 1889.

On throat a pale orange brown patch,
flank patches flesh color.

Ph. 75. Xagass, Peak, S. Frisco Mts,

Ariz. from Flagstaff. inst. 3.

3.30 pm. Bright sun.

Ph. 76 do do. from a somewhat
different point.

Ph. 77 San Francisco Mountains
from train at Bellemont

Station, 12 miles west of

Flagstaff. 4.30 pm. inst. 1.

Oct. 4. Prescott. A.T.

Ph. 78 View of "Thumb Butte" from balcony
of hotel Williams (Mrs. Barrington).

1 pm. inst 5. Bright sun.

Ph. 79 View of "Granite Peak" from do. do. do.

No H. 141 Sceloporus

15740

Prescott, A.T. (on logs)

Oct. 4, 1889. (Flank and neck patches blue)

No H. 142. Sceloporus

15741

Prescott, A.T. (on logs)

Oct. 4 1889. (Flank and neck patches green)

Ph. 80. Same as 79, but 5.15 pm,
partly cloudy, inst. 1.

Oct 5 '89. Prescott, Ariz.

Ph. 81. View of Prescott, from the water
reservoir. Clear inst. 1. 8.45 am

Ph. 82. View of Ft. Whipple from do. 1 pm
Mts. in the distance. do do do. 5.45 pm

Ph. 83. do do do. Focus 100.

Ph. 84. Typical specimen of Juniperus
pachyphloea. "checkerboard cedar";
near Prescott. ab. 5500' - 25 feet dist.;
given to show size; 11.30 am. Bright
sun. inst. 1. - Short oak near.

Ph. 85. Typical spec of Pinus ponderosa

Ph. 86. do. do. - 25 feet dist. do. do.

It possibly not exposed.

Ph. 87. do. do. - 25 feet dist. do. do.

Ph. 88. Same, from behind, Prescott Court-
house in the distance. do do.

No 3019. Parus griseus

Prescott, Ariz., 5500', Oct. 5 '89

L. C. ^{imm.}, diam. of eye ^{imm.}

T. L. 5 1/2 inch.

Iris dark brown

No H. 143. Anasoma juv

15738 Prescott, Ariz. Oct. 5 '89.

No H. 144 Sceloporus

15742 Prescott, Ariz., Oct. 6 '89. (same spec)

No H. 145 Sceloporus, Ariz., do

15743 Prescott, Ariz., Oct. 6, '89. (rocks)

No H. 146. Sceloporus

15744 Prescott, Ariz. Oct. 6 '89 (rocks).

B. Pinus ponderosa occurs at
Prescott down to the plain,
or about 5200 feet without
minor details of ^{The whole valley sloping north}
regard to slope exposure. It
is mixed with ^{juniper} cedar (Junip.
pachyphloea
occidentalis) ^{occasionally} and scrub
oaks at least up to 5800'. On the
west slope of the Granite Ridge on the road to Skull Valley
the pine gives out chiefly at 5500' and ^{is replaced} by oak only on

No. 3020. - Tamias dorsalis

Prescott, Ariz. Oct. 6, 1889. Among rocks.
Tail evidently defective, forming a
thickened knob at the end, hence
no measurements!
by the cat!
left: skin taken

No. 3020 b. Skull of same

No. 3021 Spermophilus

♂

Prescott, Ariz. Oct. 7, 1889.

Tl. $5\frac{7}{16}$ inch.

Iris brown; bill dark brownish
plumbeous, lower mandible
paler grayish except tip; feet
~~blackish~~ brownish black

No. 3022 Tamias dorsalis ♀

Prescott, Ariz. Oct. 7 '89 - 5600'

Tot. l. $9\frac{2}{16}$ inch; tail $3\frac{15}{16}$ inch

hind foot, incl. claws, $1\frac{5}{16}$ inch

This species always seeks
safety among the rocks, like
T. lateralis

No. 3022 b. Skull of same

No. 3023. Spermophilus

♂

Prescott, A. T. Oct. 7 '87 - 5600'

Tl. $13\frac{12}{16}$ inch; tail $5\frac{14}{16}$ inch

hind foot incl. claws $2\frac{3}{16}$ inch

No. 3023 b. Skull of same.

No. 3024 Spermophilus

♂

Prescott, A. T. Oct. 7 '87. - 5600'

Tl. $15\frac{2}{16}$ inch; tail — inch

hind foot incl. claws — inch

No. 3024 b. Skull of same

Ph. 88.

Oct. 8, Stage

Ph. 88. - Waxing the horses (stage coach)
under
Skull
(Copper) Walling - 2 from 2 from
Green inst. 1.

Ph. 89 Spoiled by exp. to daylight. On
plate erroneously inscribed 88

Ph. 90 do do. ?

Oct. 9, 1889 — Vulture ^{mines} P.O. Ariz.
Maricopa Co.

Studies of cactuses.

Ph. 91 Candelstick cactus. Cereus giganteus

From to compare for size: ind. l. height

over 11.30 am. (1889)

Ph. 92 cactus (same as I saw

into my skin. do. do. do. (1889)

Ph. 93 Fouquieria (spinosa) splendens ^{mines}
~~Cactus~~ ~~at~~ ~~Maricopa~~ ~~Co.~~ ~~Yucca~~ ~~catal.~~

do do do do.

Ph. 94 From generations of Candelsticks.

do do do do. 12 noon.

No 3025. Auriparus

♂ &

Vulture ^{mines} P.O., Ariz., Oct. 9 '89

T.L. 110 ^{mm}; diam. eye 2.5 ^{mm}

Iris dark brown; bill horny blackish
plumbeous; pale at base of lower

mandible; feet blueish plumbeous:

parine! Call note very characteristic

ally parine: chickadee-like!!

Molting all over.

No 3026 Phoebe

o

Vulture, Ariz., Oct 9 '89.

T.L. 107 ^{mm}; diam. eye 2.75 ^{mm}.

Iris brown; bill dark plumbeous, paler
at base of lower mandible; feet blueish

plumbeous, soles whitish. Call note

decidedly catbird-like. Molting all over.

No. 3027 Amphispiza

F

Vulture, Ariz. Oct. 9 '89.

T.L. 137 ^{mm}; diam. eye 3.25 ^{mm}.

Iris brown; bill blackish plumbeous,
lower mandible, except tip, pale

blueish gray; feet pale horny gray.

Molting, especially head.

No 3028 Amphispiza

f

Vulture, Ariz., Oct. 9 '89

T.L. ^{mm}

Colors like Junco.

No 14. 147 - Lizard

15749

Vulture, Ariz. Oct 9 '89.

No H: 148. Lizard Callisaurus draconoides.

15734 Vulture, Ariz. Oct. 9 1889.
White underneath without colored flank patches; on
the white sides of throat dusky lines

No H: 149. Lizard Callisaurus draconoides

15736 Vulture, Ariz. Oct. 9 1889.

No 3029 Tamias ♂

Vulture, Ariz. Oct. 9, 1889.

T.L. 210 mm; tail 77 mm

hind foot, incl. claw, 38 mm

Among rocks.

No 3029 b. Skull of same

No 3030. Tamias ♂

Vulture, Ariz. Oct. 9, 1889

T.L. 192 mm; diam. eye 3 mm

Iris dark brown; bill and feet
brownish black.

No H: 150 - Lizard. Callisaurus draconoides

15735 Vulture, Ariz. Oct. 9, 1889

Flanks light emerald green,

the two dark bars do
the sides being darker
front of each green,
smaller one of flesh colored; throat
white without dusky lines.

Oct. 10.

Ph. 95 - Echinocactus
~~Cylindropuntia~~ cactus with curved

spines. - Vulture, Oct. 10. - 10.30 am.

Bright sun; inst. 1. - 10 feet distant.

Cactus 900 mm high.

No 3031. Campylorhynchus ♀

Vulture, Ariz. Oct. 10 '89

T.L. 198 mm; diam of eye 3.5 mm

Iris copper red; bill slaty brown
lower mandible, except tip, pale
bluish gray; feet dull pearl
gray; Primaries nothing

No 3032 Salpinctes ♂

Vulture, Ariz. Oct. 10 '89

T.L. 145 mm.

Colors as No. 3021.

No. 148. Lizard Callisaurus draconoides.

15734 Vulture, Ariz. Oct. 9, 1889.

White underneath without colored flank patches; on
the white sand sides of throat very lines

No. 149. Lizard Callisaurus draconoides

15736 Vulture, Ariz. Oct. 9, 1889.

No. 3029 Tamias ♂

Vulture, Ariz. Oct. 9, 1889.

T.L. 210 mm; tail 77 mm

hind foot, incl. claw, 38 mm

Among rocks.

No. 3029 b. Skull of same

No. 3030. Tamias ♂

Vulture, Ariz. Oct. 9, 1889

T.L. 192 mm; diam. egg 3 mm

Iris dark brown; bill and feet
brownish black.

No. 150 - Lizard. Callisaurus draconoides

15735 Vulture, Ariz. Oct. 9, 1889

Flanks light emerald green,

the two dark bars descending from
the sides being darker green; in
front of each green patch a
smaller one of flesh colored; throat
white without dusky lines.

Oct. 10.

Ph. 95 - Echinocactus
~~Cylindropuntia~~ cactus with curved

spines. - Vulture, Oct. 10. - 10.30 am.

Bright sun; incl. 1. - 50 feet distant.

Cactus 900 mm high.

No. 3031. Campylorhynchus ♀

Vulture, Ariz. Oct. 10 '89

T.L. 198 mm; diam of egg 3.5 mm

Iris copper red; bill slaty brown
lower mandible, except tip, pale
bluish gray; feet dull pearl
gray; Primaries molting

No. 3032 Salpinctes ♂

Vulture, Ariz. Oct. 10 '89

T.L. 145 mm

Colors as No. 3021.

No 3033 Harporhynchus palmeri

♀

Vulture, Ariz., Oct. 10 '89

T.L. — ^{mm}; diam. eye 5 ^{mm}

Iris orange yellow; bill and feet
horny dark brownish gray.

No 3034 Phainopepla nitens

♂

Vulture, Ariz., Oct. 10 '89

T.L. 192 ^{mm}; diam. eye 3.5 ^{mm}

Iris copper red; bill and feet
brownish black; lower mandible
at base pale brownish gray.

No 3035 Lanius

♂

Vulture, Ariz., Oct. 10 '1889

T.L. 233 ^{mm}; diam. eye 5 ^{mm}

Iris dark brown; bill dark
plumbeous; feet brownish
black; Primaries molting and all over.

No. H. 151 Lizard. Uta

15727

Vulture, Ariz., Oct. 10 '1889

No. H. 152 Lizard. Uta

15728

Vulture, Ariz., Oct. 10 '89

My In addition to the four species of
lizards collected at Vulture, I
noticed several specimens of
Eumeces with pale
sky blue tail, the same as observed
at Prescott, and at Phoenix

No H. 153 Horned Rattlesnake Crotalus cerastes

15723

Vulture, Ariz., Oct. 10 '89.

Found dead and only head and
rattle preserved.

No 3036 Lophortyx

♂

Vulture, Ariz. Oct. 10, 1889.

T.L. 287 ^{mm} diam. eye 4 ^{mm}

Iris dark brown;

My. — The "candle stick" cactus appears first
about 7 or 8 miles south of
Stanton, on road between Prescott & Phoenix.

Ph 96 X Vulture Peak, from south side.

8 am. 1 inst. (Spotted 1).

Ph 97

do do.

P.B. The timberline (*Pinus ponderosa*) around Prescott is laid down on a map by John F. Hardy, geol. of the territory, first published in the Journal of Mining Engineering, 1882. Prof. Hardy has in preparation a more detailed map. - The candle stick cactus he informs me goes up to about 3000 feet.

No 3037 *Spizella*

♂

33 miles nw. of Phoenix, A.T.
Half way between Ph. and Vulture.

Oct. 11, 1889

T.L. 232 ^{mm}; diam egg 11.5 ^{mm}

Iris yellow; ^{light} horny greenish-yellowish
gray; feet dark gray.

No 3038. *Lepus*

o. immat.

Phoenix, A.T. Oct. 12, '89.

T.L. 368 ^{mm} tail 56 ^{mm}

hind foot incl. claws 80 ^{mm}

No 3038 b. Skull of same.

No H. 154. Lizard *Uta*

15750

Phoenix, A.T. Oct. 12 '89.

No H. 155 Turtle *Kinosternon henrici*.

15755

Salt River, Phoenix, A.T. Oct. 12 '89. (alive)

No H. 156 lizard. *Uta*

15730

Phoenix, A.T. Oct. 14 '89.

On throat an ill-defined patch of
pale brownish orange.

Ph. 98. - Maricopa Indians at
Tempe RR station. 2 pm. cloudy
inst. 1.

No H. 157. Snake *Phyllorhynchus browni* n.s. & g.!!
Tucson, A.T.

Presented by Mr. Herbert Brown, Tucson.

No H. 158 lizard. *Sceloporus clarkii*!!

15745 Tucson, A.T. Oct. 15, 1889.

No H. 159. Lizard *Uta*

15731 Tucson, A.T. Oct. 15, 1889

Flank patches pale greenish blue,
throat patch very pale greenish.

Ph. 99 - San Augustine, Church, Tucson, A.T.

Oct. 15, 1889. - Bright sun. 11:30 am. inst. 1.

Ph. 100 do. do. do.

Ph. 101 do do 12 noon.

Ph. 102 Santa Catalina Mts from RR.

Station, Tucson, A.T. - 1:30 pm. inst.

Ph. 103 do do do. 5 inst.

Oct. 17.

Ph. 104. Mexican

8 am.

Ph. 105 Mex Fan

Ph. 106 M. water c

Ph. 107 Mex. sha

No 3039. *Spermophilus*

♂ juv

2 miles south of Nogales, Sonora, Mex.

Oct. 17, 1889.

T. l. 420 mm; tail 200 mm

hind foot incl toes 57. mm

No 3039 B Skull of same.

No H. 160. lizard

15751

2 m. S. Nogales, Mex. Oct. 17 '89.

Tail and hind legs pale reddish
brown, almost transparent; dorsal
median stripe dark like head,
the other light stripes pale straw
color becoming white posteriorly.

No H. 161 Lizard *Cnemidophorus*

15752 2 m. S. Nogales, Mex. Oct. 17 '89

Ph. 98. - Maricopa Indians at
Tempe RR station. 2 pm. cloudy
inst. 1.

No. H. 157. Snake *Phyllorhynchus browni* n.s. & g.
Tucson, A. T.

Presented by Mr. Herbert Brown, Tucson.

No. H. 158 lizard. *Sceloporus clarkii* !!

15745

Tucson, A. T. Oct. 15, 1889.

No. H. 159. Lizard To Uta

15731

Tucson, A. T. Oct. 15, 1889

Flank patches pale greenish blue,
throat patch very pale greenish.

Ph. 99 - San Augustine, Church, Tucson, A. T.

Oct. 15, 1889. - Bright sun. 11:30 am. inst. 1.

Ph. 100 do. do. do.

Ph. 101 do do 12 noon.

Ph. 102 Santa Catalina Mts from RR.

Station, Tucson, A. T. - 1:30 pm. inst.

Ph. 103 do do do. 5 inst.

Oct. 17.

Ph. 104. Mexican Water carriers, Mex Nogales.

8 am. inst. 1 bright sun. (ficus?)

Ph. 105 Mex Farm house (adobe) do. do do.

Ph. 106 M. Water carriers. do do. 8:15 am. inst. 1.

Ph. 107 Mex. 'shanty', Nogales, do do do. 8:30 am

No 3039. *Spermophilus* ♂ juv

2 miles south of Nogales, Sonora, Mex.

Oct. 17, 1889.

T. l. 420 mm; tail 200 mm

hind foot incl. toes 57. mm

No 3039 C Skull of same.

No. H. 160. lizard *Cnemidophorus*

15751

2 m. S. Nogales, Mex. Oct. 17 '89.

Tail and hind legs pale reddish
brown, almost transparent; dorsal
median stripe dark like head,
the other light stripes pale straw
color becoming white posteriorly.

No. H. 161 Lizard

15752 2 m. S. Nogales, Mex. Oct. 17 '89

Body like fungi, but hind
legs and tail opaque brownish
drab. - like fungi ~~away~~ on stony ground

No H. 162 Lizard Uta

15732 2 m. s. Nogales, Mex., Oct. 17, '89.

Flank and throat patches blue.

On logs.

No 3040 Dryobates scalaris bairdi ♀

2 m. s. Nogales, Mex. Oct. 17 '89.

Iris dark chestnut; bill dark
greenish slate; feet, ^{pale} greenish
pallid.

T.L. 170 ^{mm} diam of eye 3 ^{mm}

No H. 163 Lizard Sceloporus

15753 Calabasas, A.T., Oct. 18, '89

= No. 1601: Tail brownish drab = 161.

No H. 164 Lizard Sceloporus

15746 Calabasas, A.T., Oct. 18, '89.

No H. 165 Lizard Uta

15733 Calabasas A.T. Oct. 18 '89. ~~Crest~~ on house wall.

Flank patches pale sky blue; throat patches
pale yellowish green in the middle, orange on the sides.

No 3041 Pyrocephalus mexicanus

♂ ad

Calabasas A.T. Oct. 18 '89

T.L. 145 ^{mm}; diam. of eye 4 ^{mm}

Eyes brown; bill and feet blackish
brown.

No 3042 Pipilo megalonyx

♂

Calabasas A.T. Oct. 19 '89.

T.L. 222 ^{mm}; diam. eye 4.5 ^{mm}

Eyes raw umber; bill pale
purplish gray; feet pale
brownish gray

No 3043 Centurus uropygialis

♂

Calabasas, A.T. Oct. 19 '89

T.L. 240 ^{mm}; diam eye 4 ^{mm}

Iris chestnut; bill blackish
pallid; feet pale greenish
gray. Primaries & crown patch and
all on
breasts;

No 3044 Harporhynchus palmeri

♀

Calabasas A.T. Oct. 19 '89

T.L. 295 ^{mm}; diam eye 5 ^{mm}
Iris orange yellow.

Oct. 20.

Ph. 108 near flour mill, ranch near
Mission. 10 am. slightly
cloudy, cool. 1.

Ph. 109 do. do.

Ph. 110 Ruins of Mission Church "Mission
de San Juan de Tumacacori," 10 miles
n. of Calabasas.
Interior, front. 11.30 am; fairly well; inst 1.

Ph. 111 do., front, at entrance.

Ph. 112 do interior: toward the altar,
from the entrance.

Ph. 113 do: ceiling of abais

Ph. 114 do: looking toward the entrance

Ph. 115 do: ^{interior} from top of triglyph over entrance.

Ph. 116 do: baptisterium (?) in yard

Ph. 117 do: church from the yard.

Ph. 118 do do.

Ph. 119 do: exterior. do do.

No. H. 166 lizard. Sceloporus clarkii!

15748 Tumacacori, 10 m. n. of Calabasas A.T.

Oct. 20 '89. - On adobe wall.

Under side white with faint
trace of bluish throat and
flank patches (Shortly after
death then become intensely
blue broadly bordered with
black. Upper parts lighter than
in the alcoholic specimens and
most of the dorsal scales bronzy
green at base.

No. 3045. Agelaius phoeniceus ♂

Calabasas, A.T., Oct. 20 '89

TL. 222 ^{mm}; diam. eye 4.5 ^{mm}

No. 3046. Dryobates scalaris bairdi ♂

Calabasas, A.T., Oct. 21 '89

TL. 177 ^{mm}; diam. eye 3 ^{mm}.

Iris dark reddish brown; bill blackish
plumbeous, lighter at base of ~~upper~~ lower
mandible; feet pale greenish plumbeous.

No. The Geococcyx collected by Saily at Calabasas
measured
TL. 585 ^{mm}; diam. of eye 8 ^{mm}

No 3047. *Sphyrapicus nuchalis* ♀

Calabasas, A.T. Oct. 21 '89

Tl. 218 mm diam. eye 4 mm

Bill dark purplish slate, paler
below; feet dull pale plumbeous.

No 3048 *Mimus polyglottos* ♀?

Calabasas A.T. Oct. 21 '89

Iris ^{brownish} yellowish.

No 3049 *Myerornis leucophrys oregonus* ♂ juv.

Calabasas A.T. Oct. 22 '89.

Tl. 120 mm; tail 52 mm

hind foot with claw 19 mm

No 3049 b. Skull of same

No H. 167. Lizard *Cnemidophorus* *paleatus*

15754 Calabasas, A.T. Oct. 22 '89.

Tail pale sky blue; light stripes
on body pale straw yellow.

No 3050 *Phalaenoptilus* *calcarius ornatus* ♀ ad

Calabasas, A.T. Oct. 22 '89.

Tl. 151 mm; diam. eye 4 mm

Iris brown; bill brownish slate,
lower mandible paler; feet
horny brown;

No 3051 *Campylorhynchus brunneicapillus* ♂

Calabasas A.T. Oct. 22 '89

Tl. 210 mm; diam. eye 4 mm

No 3052. *Thryothorus bairdi* ♀

Calabasas A.T. Oct. 22 '89

Tl. 133 mm; diam. eye 3 mm

No 3053 *Lepus* ♂

Calabasas A.T. Oct. 23 '89

Tl. $14\frac{14}{16}$ inch; tail $2\frac{5}{16}$ inch

hind foot incl. claws $3\frac{8}{16}$ inch.

No 3053 b. Skull of same.

No 3054. *Catherpes* ^{mexicanus} ~~compensus~~ *punctulatus* ♂

Calabasas A.T. Oct. 23 '89.

Tl. 147 mm diam. eye 3 mm

Iris brown; bill dark brownish
slate, lower mandible gradually
becoming paler basally, the basal third
half being nearly white; feet dark horny ^{brown}.

No 3055. Spermophil

♀

Calabasas A.T. Oct. 23, 1889.

Tl. 445 mm; tail 187 mm

hind foot, incl. claws, 56 mm

No 3055 b. Skull of same.

NB: Character b in Amurocaranus

Ridgway's Manual p. 407: "Tail 3 times as long as tarsus" does not hold; not one of the averages shows this proportion! In A. bairdi with tail only 2½ times tarsus length of latter is not given!!

Also in d (p. 408), "Tarsus" for exposed culmen!

No 3056 Cardinalis e. superbus

♂

Calabasas, A.T. Oct. 24 '89

Tl. 240 mm diam. eye 4.25 mm

Iris brown; bill ^{dull} orange red brownish at base; feet brownish gray

No H. 168. Frog

15720.

Sonora Creek near Calabasas A.T.

Oct. 23 '89.

~~Color green with dark brownish olive~~

No H. 169 Lizard Holbrookia

15737

Calabasas, A.T. Oct. 23 '89.

♂

No 3057 Calamospiza melanocorys

Calabasas A.T. Oct. 24 '89.

Tl. 175 mm; diam. eye 3.5 mm

Iris brown; bill pale bluish gray, lower mandible pale, ~~mostly~~ more whitish; feet ~~brown~~ grayish brown.

No 3058 Dipodops

♂ ad

Calabasas A.T. Oct. 24 '89

Tl. 233 mm; tail 136 mm

hind foot incl. claws 36 mm

No 3058 b. Skull of same

No 3059. *Dipodops*

♂

Calabasas, A.T. Oct. 24 '89.

TL. 210 ^{mm}; tail, 130 ^{mm}

hind foot incl claws 35 ^{mm}

No 3059b. Skull of same

Oct. 25 '89.

Ph. 120. View of country near Calabasas

from foothills of the Cayatano Mts.

barom. 3365' looking east, to

show effect of slope exposure on

hill in middle of picture; the

north slope being covered with narrow-

leaved Agaves

yucca while the south slope

is covered with "Yuccatels" (For-
guieria) and mesquite "cat-claw".

The crest of the hill runs nearly

straight east and west. 9.30 am.

sun slightly veiled; inst. 1.

Ph. 121 Santa Rita Peak from southernmost

peak of Cayatano Mts, Calabasas, 4550'

to the left in foreground two other peaks of

11.30 am. sun but slightly veiled by clouds; inst. 1.

Ph. 122

Agave, narrow-leaved; east slope of

4475'

Calabasas A.T. 12 noon. Do. Do. V. Bailey.

5x4.

Ph. 123

"Lover's Glen" Cañon, Calabasas

12.30 pm. Do. Do. 4x5

No 14. 170 Frog.

15721

Smoots Creek, Calabasas, A.T.

Oct. 25, '89.

No 14. 171 lizard Sceloporus

15747

Calabasas A.T., Oct. 25. '89.

In the RR track among stones.

On the flanks a longitudinal,

~~rather~~ narrow patch of pale

sky blue, and a spot of similar

color on each side of the neck

below the ear opening.

No 3060 Rhynchophanes mecorini

♂

Calabasas, A.T. Oct. 25 '89.

TL. 153 ^{mm} diam. egg 3.75 ^{mm}

Iris dark brown. bill clay colored, paler
underneath, tip dusky; feet dark horny brown

No 3061. ^hTomomys

♂ ad

Calabasas, A.T. Oct. 25 '89.

TL. 210 ^{mm}; tail 62 ^{mm}; hind foot
incl. claw, 30 ^{mm}

No. 3061 b. Skull of same.

Oct. 27. 1889 - Calabasas A.T.

Ph. 124. Unloading burro train

bringing in ore in bags, at
R.R. station. Bright sun; 12:15 pm. inst. 9.

Ph. 125 mm Do. do. inst. 3.

Ph. 126 mm Do do inst 5.

Ph. 127. Burros from do. do inst. 5?

Ph. 128. Raising a burro do do. inst. 1.

Ph. 129. Santa Rita hotel, Calabasas,
from S.E. Daily on balcony.
12:30 pm. inst 1.

Ph. 130 mm? Has probably both the "tank house"
and the Santa Rita Mt. from
balcony of Santa Rita hotel with
4:15 pm. bright. inst. 1.

Ph 131 (or 132) mm Cayatana Mts and
Santa Rita Peak, from Lobby
balcony Sta Rita hotel. 4:15 pm.
inst. 1.

Oct. 28 '89. - Calabasas A.T.

Ph. 133, "Tank house" Santa Rita Hotel
from the hotel balcony. Daily in door.
3:15 pm. bright, inst 1.

No H. 172. Frog.

15722 Calabasas, A.T. Oct. 29, 1889.

Brickyard pond.

Ph. 134 mm Crochors in garden, Hotel Santa Rita,
Calabasas, A.T. Oct. 29 '89. 10:45 am
bright sun. inst. 1.

No 3062 mm Rooting nest of itavi-
parus flaviceps ♂

Calabasas, A.T. Oct. 29, 1889.

No 3063

♀

Heiachuca Station A.T.

Oct. 30, 1889.

Tel. 595^{mm}; tail 270^{mm}

hind foot incl. claw 62^{mm}

No 3063 b. Skull of same

Oct. 31. 1889. Ft. Huachuca

Ph. 136 X Spoiled.

Ph. 137 - Hotel Huachuca, Ft H. a T.

1.15 pm bright sun inst. 1.

Ph. 138 - Broadland Agave

with a small-leaved one in the

background; Ft. Huachuca. 5025' feet, not

corrected. 1.45 pm dr. dr. 5x4.

Leaves 24 inches long.

Ph. 139 Blank. o o.

Ph. 140 Fort Huachuca, A T., from the hill

south of it. 2 pm. 4x5. inst. 1.

Ph. 141 Do do do do inst. 5.

Ph. 142 Do do do do do 3.

Ph. 143 Do do; from nearer and lower. inst 1.

Nov. The following altitudes, except under heads of species, are not corrected.

Nov. 1. Ft. Huachuca (Hotel).

Barom. 178; 8 am local time

24.23 = 4720'

9 am. At the water reservoir in the valley

a little over 2 miles south of the fort barom. 23.75 = 5225'

Here a tall ^(40') and old *Juniperus*

pacchylōra; This species appears in

small exemplars about 1 mile from

the fort.

First ^{young} small ^(20') *Pinus ponderosa* in

valley 9.30 am. bar. 23.58 = 5410'

A few feet higher a large tree,

60 centim. in diam. at base, and

young trees become ^{more} numerous; among

the oaks; no. bycanons any more —

Pinus ^{of this size} now numerous among the

oaks on the east slope of the valley up

to the top, but none yet on the western

slope.

10.45 am. valley bifurcates barom. 23.29

= 5715' f. Lycamors only occasional
there still a large one. Pines not yet on
western slope. — Going up the left (east) fork.

Here shortly the valley again widens.
This time up right on southern branch.

Pines now become numerous, but
the short-needled kind, only occasional

P. ponderosa. Oak still continues.

Log cabin a little higher up.

11.15 barom. 23.09 = 5930' Pinon with nuts

here on 5 ~~ways~~ square side by side:

P. ponderosa, the Pine, Pinon, Junip. proserpina

and oaks; ^{in fruit} ~~the~~ broad-leaved Agave; birds:

Black crested Jay; Melanerpes formic. bird;

Junco yellow eyes

12.15 pm ~~Pass~~ large fruit bearing broadleaved

agave. Still no pines on ~~left~~ east slopes

except piñons, and Junip. p. — Barom. 22.66 =

6410' — Rest 45 min

1 pm. Pass. Bar. 22.62 = 6460' — Lizards.

From the top of the pass I can see
unobstructedly south over lower ridges, the
horizon being formed by blue mountains
way back in Mexico. It is evident that
the Huachuca Mts are not continuous with
the latter a wide plainlike valley

separating them. Nor does the pine appear
on the south slopes of Huachuca Mts.

as seen from here, except on the higher
peaks, and the pines are consequently
not continuous with what pine forests

there are in the Mexican Mts. 40 or
more miles away. I am told by Mr. Albrecht

that the Gimp. Woodpeckers were not shot

30 miles south of the boundary but

at least 120 miles, and with the country
now lying at my feet I am ready to

believe him.

5.30 pm Hotel Huachuca Barom: 24.40 = 4850

Nov. 2.

8 am. Hotel Huachuca, Barom: 24.21 = 4750

1 pm: 24.18 = 4780

No H. 173 Lizard Uta

15761

Ft. Huachuca, A.T. Pass Summit 6700'

November 1, 1889.

a faint ~~pale~~ cream colored patch in middle of throat.

No H. 174 Lizard Sceloporus

15756

Ft. Huachuca A.T., Pass Summit 6700'

Nov. 1 '89.

On throat a large patch of brilliant ultra marine blue running backwards on each side of the neck; ~~on each~~ flanks pale greenish blue terminating ^{posteriorly} in the groins in a black spot; scales on back creamy white, black at base; on upper neck a black collar bordered posteriorly with white; longitudinal stripe on each side of upper neck, and stripes on side of head likewise white; tail suffused with greenish blue; throat in front of blue patch and ~~middle~~ belly lower parts white.

(no black bordering blue patch; the black surrounding it appeared after death).

No 3064 Spermophilus

♀ ad.

Ft. Huachuca Valley, A.T. about 5800'.

Nov. 1 '89

Tl. 458 mm tail. 217 mm

hind foot incl claws 55 mm

No 3064 b. Skull of same

No 3065 Junco

♀

Ft. Huachuca Valley, A.T. 5000-6000'

Nov. 1 '89.

Tl. 152 mm; diam of eye 3.5 mm

Iris bright deep chrome; bill: upper mandible ^{very dark horny} blackish brown, lower mandible horny buff; feet pale brownish flesh.

No 3066 Passerella

♂

Ft. Huachuca Valley, A.T. ab. 5800'

Nov. 1 '89.

Tl. 157 mm; diam of eye 4 mm

Iris brown; bill brownish slate, sides at base and basal half of lower mandible wax yellow. Feet pale brownish flesh.

No 3067 Pipilo

♀

Ft Huachuca Valley A.T. 5000-6000'

Nov. 1 '89

TL. 203 ^{mm}; diam. eye 3.75 ^{mm}

Iris pale raw umber; bill blackish brown; feet dark grayish brown.

No 3068 Cyanocitta

♀

Ft Huachuca Valley, A.T. 6000'

Nov. 1 '89.

TL. 290 ^{mm}; diam. eye 6 ^{mm}

Iris dark brown; bill and feet black.

No 3069 Aphelocoma

♀

Ft. Huachuca Valley 6000-6700'

Nov. 1 '89.

TL 327 ^{mm}; diam. eye 6 ^{mm}

Iris very dark brown; bill blackish slate, below at base whitish; feet black.

No H. 175 Lizard Sceloporus

15757 Ft Huachuca A.T. 5800'

Nov. 2 '89.

changed in color very greatly after death. When just ~~dead~~ it was nearly black all over, except the blue patches underneath and on the under surface of the tail, so black in fact that it was almost impossible to distinguish the pattern on the upper neck. When ~~examined~~ examined an hour after, when coming home, it had changed to the same colors as no 174. In the living animal the blue throat patch was deep ultra marine blue verging to Prussian blue on the posterior branches down each side of the fore neck; these continued though considerably darker backwards on each side of the chest until they meet the flank patches which were vivid greenish blue; the black groin patch was also strongly suffused with Prussian blue;

rest of under surface, except of tail
which was whitish, was a smoky
blackish; upper surface, including tail,
smoky black with a faint coppery
luster on the back.

No 176 lizard *Sceloporus*

15758

Ft. Huachuca A.T. 5700'

Nov. 2 '89.

Like foregoing, though not quite so
dark; tail with a decided greenish
blue tinge. Changed like foregoing.

No 177 lizard *Sceloporus*

15759

Ft. Huachuca A.T. 5700'

Nov. 2 '89

Like foregoing, perhaps still
lighter and changing in the same
manner; underneath whitish, except
posterior throat and flanks which
were of a pale sky blue.

No 178 lizard *Uta*

15760

Ft. Huachuca A.T. 5800'

Nov. 2, 1889.

On throat a patch of vivid straw
yellow.

No 3070 *Spizella*

♀

Ft. Huachuca A.T. 5800'

Nov. 2 '89.

Tl. 133 ^{mm.} diam. eye 2.5 ^{mm.}

Iris brown; ^{bill} horny brown above, flesh
color below; feet pale horny brown.

No 3071 *Sialia*

♂

Ft. Huachuca A.T. 5800'

Nov 2 '89.

Tl. 167 ^{mm.}; diam. eye 4 ^{mm.}

Iris dark brown.

No 3072 *Spermophilus*

♂ juv

Ft Huachuca Valley, 5600' A.T

Nov. 1 '89

Tl. 375 ^{mm.}; tail 167 ^{mm.}; hind foot 51 ^{mm.}

No 3072 b Skull of same.

Nov. 3.

Ph. 144 - Ft Huachuca and Huachuca
Valley from the north. 10.30 am.
Expt. am. inst. 1.

Ph. 145 - Dipodomys hill, 4 miles north
of Ft Huachuca. do do do 11.45

Ph. 146 - do do, slightly different view.
Diameter of hill 3 meters; height
60 centimeters

No 3073 Lepus

♂

Huachuca Plains, A.T. Nov. 3 '89.

Iris pale raw number.

TL. 560 ^{mm}; tail 83 ^{mm}

hind foot incl. claws 130 ^{mm}

No 3073 b. Skull of same.

No 3074 Otocoris

♂

Huachuca Plains, A.T. Nov. 3 '89.

TL 167 ^{mm}; diam eye 3.5 ^{mm}

Iris brown; bill plumbeous, darker

at tip; feet brownish gray.

No 3075 Junco

♂

Silver City, N.M. Nov. 5 '89.

TL. 150 ^{mm}; diam. eye 3.5 ^{mm}

Iris very dark brown; bill flesh
color, tip dusky; feet brownish gray.

No 3076 Junco

♂ !!

Silver City, N.M. Nov. 5 '89.

TL. 155 ^{mm}; diam. eye 3.5 ^{mm}

Colors as foregoing.

No 3077 Harporthynchus

♀

Silver City, N.M. Nov. 5 '89

TL. 270 ^{mm} diam. eye 6 ^{mm}

Iris chrome yellow; bill black;
feet ^{dark} brownish gray, Tarsus
lighter behind.

No 3078 Lepus

♂

Silver City, N.M. Nov. 5 '89

TL. 343 ^{mm} tail 33 ^{mm}

hind foot incl. claws 82 ^{mm}

Iris dark hazel

No 3078 b Skull of same

No 3079 Lepus

♀

Silver City, N.M. Nov. 5 '89

Total. 340 mm tail. 46 mm

hind foot with claws 84 mm

No 3079 b Skull of same.

No 3080 Lepus

♂

Silver City N.M. Nov. 5 '89

T.l. 327 mm; tail 36 mm

hind foot incl claws 80 mm.

No 3080 b. Skull of same.

No 3081 Lepus

♂

Silver City, N.M. Nov. 5 '89

Tl 595 mm; tail 83 mm

hind foot incl. claws 136 mm

No 3081 b. Skull of same.

Nov. 7 '89. Silver City, N.M.

Ph. 147. Yucca. with l. leaf from 3:50 pm

Ph. 148 Yucca with fruit stalks do do do 5x4

Ph. 149 Same plant 'do do do 5x4.

Ph. 150 ~~Yucca~~? Ore Mill Unloading
Silver ore from Pinos Altos.
with l. leaf from 4 pm.

Ph. 151 do do do do

Ph. 152 do do do do

NB The altitude of Silver City as
ascertained by R.R. Swelling from
the sea is said to be nearly 6000',
or near so, that a story of this hotel
may be considered to be 6000' within
a few feet. Am. 178 Nov. 7. 7th pm
23.45 (- 5550!)

The country around Silver City is
a rolling plain cut by numerous
"washes" and ^{thickly} covered with Yucca,
shrub oaks, Piñon and both
species of Juniperus both padleyphloea
and the strip bark species.

Species of birds observed in addition
to those previously

Red tailed hawk
Carpodacus
Reinhardtia calandula

Pipilo macrourus

(*Apelocoma*)
(*Aycaea* (red-tailed))
Merula propinqua

Colaptes cafer

Lanius

Amphispiza bilineata

(*Zonotrichia*)

No 3082. *Harporthyrus*

♂

Silver City, N.M. Nov. 7 '89.

Tl. 300 ^{mm}; diam. eye 4.5 ^{mm}

Iris clay color; bill black; feet dark brownish gray.

No 3083 *Parus*

0

Silver City N.M. Nov. 7 '89

Tl. 133 ^{mm}; diam. eye 2.75 ^{mm}

Iris brown; —

No 3084

♂

Silver City N.M. Nov. 7 '89.

Tl. 220 ^{mm}; diam. eye 4 ^{mm}

Iris chrome yellow; bill very dark brownish gray; feet dark brownish gray.

No 3085 *Pipilo*

♀

Silver City N.M. Nov. 7 '89

Tl. 198 ^{mm}; diam. eye 4 ^{mm}

Iris brown; bill pale lilac gray, upper half of upper mandible dusky; feet lilac gray, toes darker gray.
Common among the houses in town.

No 3086 *Myadestes townsendi*

♀

Silver City N.M.; Nov. 7 '89

Tl. 210 ^{mm}; diam. eye 5 ^{mm}

~~Iris~~ Iris brown; bill ^{brownish black} blackish brown;

feet blackish brown.

No 3087 *Spizella*

♂

Silver City N.M.; Nov. 8 '89

Tl. 138 ^{mm}; diam. eye 3 ^{mm}

Iris dark brown; bill brownish flesh color, culmen dusky; feet pale brownish gray.

No 3088 *Psaltiriparus*

0

Silver City N.M.; Nov. 8 '89

Tl. 105 ^{mm}; diam. eye 2 ^{mm}

Iris dark brown; bill and feet black.

Voice distinctly warlike, or multiple. *taxitaxis*

No 3089 *Thryothorus*

♀

Silver City N M.; Nov. 8 '89.

Tl. 133 ^{mm}; diam. eye 3 ^{mm}

Iris dark brown.

No 3090 *Aphelocoma*

♂

Silver City N M.; Nov. 8 '89

Tl. 295 ^{mm}; diam. eye 6 ^{mm}

Iris brown; bill and feet black.

No 3091 *Otocoris*

♂

Silver City N M. Nov. 8 '89.

Tl. 163 ^{mm}; diam. eye 3.5 ^{mm}

Iris brown; bill slate colored, paler,
nearly whitish at base of lower
mandible; feet brownish slate.

No 3092 *Lophortyx*

♂

Silver City N M. Nov. 7 '89

Tl. 283 ^{mm}; diam. eye 5 ^{mm}

Iris brown; bill black; feet pale
brownish pearl gray.

No 3093 *Lophortyx*

♀

Silver City N M. Nov. 7 '89

Tl. 270 ^{mm}; diam. eye 4.75 ^{mm}.

Iris brown. etc. as ♂ 3092

No 3094 *Spinus*

♂

Silver City N M. Nov. 9 '89.

Tl. 110 ^{mm}; diam. eye 2.75 ^{mm}

Iris brown; bill pale bluish gray, culmen
and tip dusky; feet brownish gray.

Molting all over.

No 3095 *Zonotrichia*

♀

Silver City N M. Nov. 9 '89

Tl. 159 ^{mm}; diam. eye 4 ^{mm}

Iris brown; bill dull brownish orange,
tip dusky; feet pale horny brown.

No 3096 *Lepus*

♀

Silver City N M. Nov. 9 '89

Tl. 353 ^{mm}; tail 42 ^{mm}

Hind toe incl. claw 82 ^{mm}

No 3096 *L.* Skull of same.

Nov. 10 '89. Silver City, N.M.

Ph. 153 Silver City, from hills west of the town. Spm. sun highly visible. inst 1.

Ph. 154 Pecos River. 5000'

do do do.

Ph. 155 Silver mine

in valley west of Silver City. do. do. do.

Ph. 156 Pecos River. 5000'

do do do.

Ph. 157 Church, near Silver City. do. do. do.
Hwy. in background. do do do.

Barom. 177 - Summit Hotel 2nd floor.

9.30 am. 23.19 (5320')

Nov. 12 '89. El Paso, Texas.

Barom. 178. Vendome Hotel 2nd floor.

8 am. 25.57 (3360')

Ph. 158 Church, Juarez, Mex.

9.20 am. bright sun. inst 1.

Ph. 159 View of Juarez, on Plaza, Juarez

Mex. do do do.

Ph. 160 Interior of Church. do do do.

Ph. 161 do do. 5 sec. do.

Ph. 162 Exterior of do. near view. do do do.

Ph. 163 Entrance to military barracks, Juarez, Mex.

do do. 9.50 am

Ph. 164 Street in Juarez do do do.

Ph. 165 Architecture: fruit stand do do do.

Ph. 166 Public school for girls, Juarez. do do do.

Ph. 167 Street scene, Juarez do do do.

Ph. 168 Court house, El Paso, Texas. do do 11 am

Ph. 169 Public School, El Paso, do do 11.15 am

Ph. 170 Building on Main Street, El Paso. do do.

Nov. 14 '89. El Paso, Texas.

Mount. north of town. Barom. 176.

12 m. 24.84. (8 am. at El Estacion.)

26.19

3.30 pm. Estm. Hotel Vendome. 26.14

31670

S. S. barom.

8 pm. 26.26

No 3097 Tamias interpres

♀

El Paso, Texas, Nov. 14 '89 - 4000'

Fl. 223 mm; tail 82 mm

hind foot incl. claws 38 mm

across rocks.

No 3097 b. Small of same

Nov. 15 '89 El Paso

5.30 ^{pm} S.D. office barometer corr. 26.33

Q. bar. Bar. 178 ——— 26.20

Correction + 0.13.

Correction 8 am Nov. 14. + 0.11

5.30 — Hotel Vendue, 20m B. 178: 26.22.

No H. 179. - Holbrookia

15762 El Paso, Texas. Nov. 16 '89.

Ground color above vinaceous
cinnamon brown, more vinaceous
posteriorly, the spots being brown
between cinnamon rufous and
vinaceous rufous; flanks anteriorly
orange buff, posteriorly sulphur
yellow, the black crescents having
a tinge of neutral tint on the yellow.

No H. 180. - lizard Uta

15763 El Paso, Texas Nov. 16 '89

No H. 181 do

15764 El Paso, Texas, Nov. 16 '89

No H. 182 do.

15765 do

No H. 183 do

15766 do

No H. 184 do

15767 do

No H. 185 do

15768 do

No H. 186 do

15769 do

No H. 187 do

15770 do

No H. 188 do

15771 do.

This species, 180-188, lives on rocks
or sand and ^{immediately upon being kindly discovered} always seeks refuge in
holes under some bush, mesquite, cactus
or the like.

No H. 189. Lepus Alta
15772 El Paso Texas, Nov. 16 '89

No H. 190 do
15773 do

No H. 191 do
15774 do

No H. 192 do
15775 do

No H. 193 do
15776 do

No H. 194 do
15777 do

No H. 195 do
15778 do

No H. 196 do
15779 do

No H. 197 do
15780 do

No 3098. Tamias integrus ♂
El Paso, Texas, Nov. 16 '89. 4000'

TL. 215 mm; tail 76 mm
hind foot incl. claws 38 mm

No 3098 b. Skull of same

No 3099 Tamias integrus ♂
El Paso Texas, Nov. 16 '89. 4000'

TL. 215 mm; tail, 72 mm
hind foot incl claws 36 mm

No 3099 b. Skull of same

No 3100 Tamias integrus ♂
El Paso, Tex. Nov. 16 '89 4000'

TL. — mm; tail — mm
hind foot incl. claws 37 mm

No 3100 b. Skull of same

No 3101 Tamias integrus ♂
El Paso, Tex. Nov. 18 '89 4000'

TL. 215 mm; tail 80 mm
hind foot incl. claws 35 mm

No 3101 b. Skull of same

No 3102. Tamias integrus ♂
El Paso, Tex. Nov. 18 '89 4000'

Tl 212 mm; tail 75 mm
hind foot incl. claws 35 mm

No 3102 b. Skull of same

No 3103 Tamias integrus ♀

El Paso, Tex. Nov. 18 '89 4000'

Tl. 218 mm; tail 75 mm

hind foot incl. claws 36 mm

No 3103 b. Skull of same

No 3104 Tamias integrus ♀ 4000'

El Paso, Tex. Nov. 18 '89

Tl. 200 mm; tail 68 mm

hind foot incl. claws 35 mm

No 3104 b. Skull of same

No 3105 Tamias integrus ♀

El Paso Tex. Nov. 18 '89 4000'

Tl. 214 mm; tail 73 mm

hind foot incl. claws 36. mm

No 3105 b. Skull of same.

No H. 198 lizard Uta

15781 El Paso, Tex. Nov. 20 '89 3700'

No H. 199 do

15782 do

No H. 200

15783 do

No H. 201

15784 do

No H. 202

15785 do

No H. 203

15786 do

By Baird
incl head measurement
Left side only

(198-20

The 198-20

sandy &

on the

R.R. ties.

Nov. 21 '89

Geol. Surv

less than 189 reg.

found on the

the Rio Grande

& under the

Paso.

26.12

S.S. more. barom. corr. for temp. : 26.23

corr.

+ 0.11

TL 212 mm; tail 75 mm

hind foot incl. claws 35 mm

No 3102 b. Skull of same

No 3103 Tamias integrus ♀

El Paso, Tex. Nov. 18 '89 4000'

TL 218 mm; tail 75 mm

hind foot incl. claws 36 mm

No 3103 b. Skull of same

No 3104 Tamias integrus ♀ 4000'

El Paso, Tex. Nov. 18 '89

TL 200 mm; tail 68 mm

hind foot incl. claws 35 mm

No 3104 b. Skull of same

No 3105 Tamias integrus ♀

El Paso Tex. Nov. 18 '89 4000'

TL 214 mm; tail 73 mm

hind foot incl. claws 36. mm

No 3105 b. Skull of same.

No H. 198 signed Uta

15781 El Paso, Tex. Nov. 20 '89 3700'

No H. 199 do

15782 do

No H. 200 do

15783 do

No H. 201 do

15784 do

No H. 202 do

15785 do

No H. 203 do

15786 do

(198-203 same pater than 189 reg.)

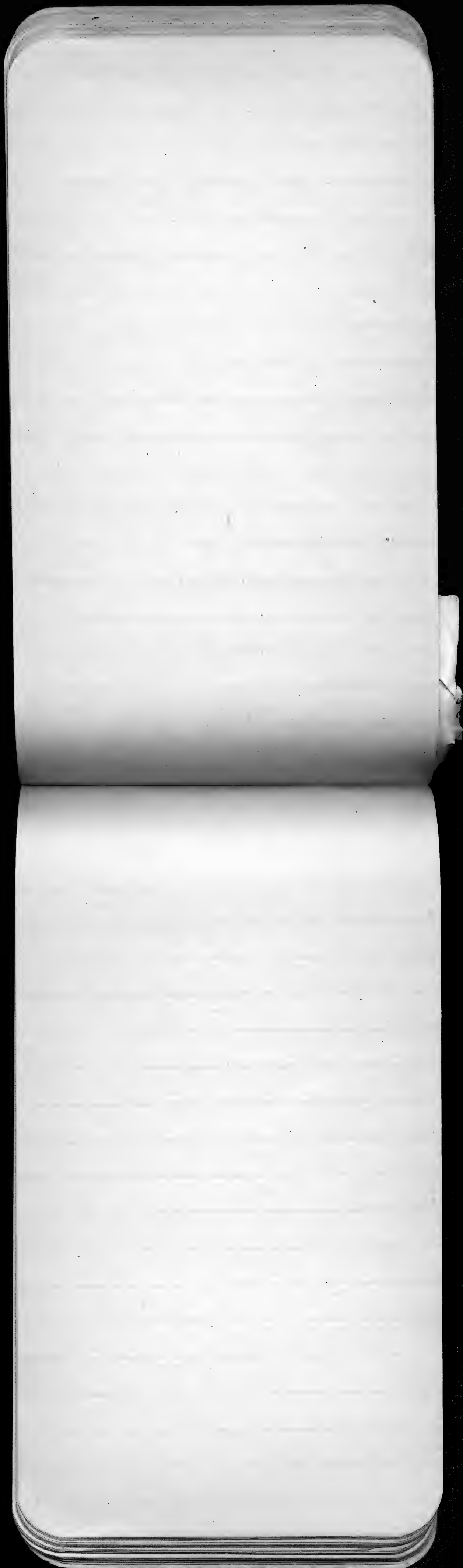
The 198-203 were found on the sandy flats near the Rio Grande on the embankment under the R.R. ties.)

Nov. 21 '89 S. S. office El Paso.

Geol. Surv. Mex. 178. 26. 12

S. S. merc. baron con. for temp. 26. 23

corr. + 0. 11





John D. Blandy, M. D.

TERRITORIAL GEOLOGIST,

PRESCOTT, ARIZONA.



St Louis
Industrious
Dr. Chamberlain
Mr. Davis

OFFICE OF

The Citizen Printing and Publishing Company.

Publishers of the Daily and Weekly Arizona Citizen.

Tucson, A. T., Oct 15 1889.

Dear Mr Fournier
Calabasas

Dear Sir:

The promoters of this
note Dr. Sturges and Mr Bailey
both connected with and collect-
ing for the Smithsonian will
visit your section for the
purpose of collecting mammal
skins - reptiles etc.

Any favor shown them
will be duly appreciated
by yours truly
Herbert Brown

Spizella monticola Ridgw.

Adult: Top of head dull tawny brown, indistinctly streaked with darker brown; rest of head, including anterior portion of forehead, plain ashy, becoming gradually paler (almost white) on chin and throat; short very pale grayish buffy. The sides and flanks similar but rather deeper; belly and under tail-coverts white; back grayish tawny, broadly streaked with black; middle wing-coverts tipped with pale buffy, but greater coverts with out light tips; bill cinnamon; length (wing) about 4.50, wing 2.70, tail 2.50, culmen 0.35, tarsus 0.72. Hab. New Mexico (vicinity of Silver City). [Nedger, Man. p. 419]

♂ Young more than twice as long as culmen; no dusky streak behind eye

3. S. breweri

♂ Young not longer than tail (usually shorter). (Wings partly without any rusty, and top of head distinctly streaked with dusky). ♂♂ Ideas distinctly striped; ear-coverts light buffy brown, in marked contrast with the very distinct broad

apical and median stripes of

dull whitish, and many of sides of

4. S. pallida meek.

♂♂ Ideas not distinctly striped, and

ear-coverts not distinctly brownish.

5. S. breweri

♂♂ Ideas and more plain grayish; chin and

upper throat black in adult.

6. S. atropurpurea

Spizella. (Ing. Mex. Tex.)

Crown. Nar.: lower back, rump, and

upper tail-coverts plain grayish or grayish

brown, or else very indistinctly streaked; lower

parts plain whitish, grayish, or pale

brownish (belly always white) in adult,

streaked with dusky in young.

a) Head more or less conspicuously marked, but

no black on chin or throat.

b) Wing with 2 distinct white bands; lower

membrane yellow; adult with dusky spot in

center of chin. . . 1. *S. ochracea*

6) Wing without 2 distinct white bands;

lower mand. without yellow; ad. without

dusky spot on chest.

c) Wing decidedly longer than tail

d) Tarsus less than twice as long as culmen;

a distinct dusky streak behind eye.

2. *S. arizonae*

" incapereus repum

" meridionalis.

Psaltis plumbeus

" santa-vitae

Psittacus flaviceps.

Ptilopus caerulea

" plumbea.

Sialia mexicana

" arctica.

UNITED STATES NATIONAL MUSEUM

UNDER DIRECTION OF

THE SMITHSONIAN INSTITUTION

WASHINGTON, August 31, 1889.

List of Special Desiderata among Arizona Birds

Cyrtonyx, Leophortyx, and Callipepla; good specimens
for mounting.

Colinus ridgwayi. Series.

Meleagris gallopavo. Good specimens for mounting.

Scardafella inca.

Parabuteo unicinctus harrisi.

Buteo borealis calurus. Very dark specimens

" abbreviatus.

" lineatus elegans — if it should be met with.

Urubitinga anthracina.

Aschibuteo ferrugineus. Good specimens for mounting.

Aquila chrysaetos. " " " "

Falco fusco-caerulescens.

" richardsoni,

Polyborus cheriway. Good specimen for mounting

Syrnium occidentale. " " " "

Megascops asio trichopsis.

" flammeus. Very special desideratum!

Glaucidium phalaenoides } Series

" gnoma.

Micropallas whitneyi.

Coccyzus americanus occidentalis

Trogon ambiguus.

Ceryle cabanisi.

Dryobates arizonae.

" scalaris bairdi.

Picoides americanus dorsalis. Series

Colaptes chrysoides.

Melanerpes uropygialis.

Anthus vociferus arizonae.

Phalaenoptilus nuttalli nitidus.

Chordeiles texensis.

Chaetura vauiei

Cypseloides niger

Eugenes fulgens.

Coeligena clemenciae.

Calothorax lucifer.

Iache laterostris.

Mysiochrysalis luteiventris.

Mysiochrysalis mexicanus magister.

" lawrencei olivascens.

Contopus pertinax.

Empidonax hammondi.

" fulvifrons pygmaeus. Series.

Ornithion imberbe ridgwayi. "

Otocorys alpestris chrysolaema "

Corvus cryptoleucus

" corax sinuatus

" americanus hesperis.

Agelaius phoeniceus sonoriensis.

Icterus parisorum.

" cucullatus nelsoni.

Leopha curvirostra stricklandi.

Spinus psaltria arizonae.

Spizella pallida.

" atrigularis.

" montani.

Junco cinereus palliatus

" dorsalis.

Peucaea arizonae. Many as possible!

" carpalis.

" cassini.

" ~~ruficeps~~

Melospiza fasciata fallax.

Passerella iliaca selustacea.

Pipilo aberti.

Cardinalis cardinalis superbus. Series.

Pyrrhuloxia sinuata beekhami.

Guiraca caerulea eurhyncha.

Passerina versicolor pulchra.

Piranga hepatica.

" at rubra cooperi.

Progne subis hesperia.

Tachycineta thalassina.

Phainopepla nitens.

Vireo bellii

" pusillus.

" vicinior.

" huttoni stephensi.

" atricapillus.

Helminthophila luciae.

" virginiae.

" ruficapilla gutturalis.

Dendroica aestiva sonorana.

" graciae

" townsendi

" occidentalis

" nigrescens.

Seiurus noveboracensis notabilis.

Geothlypis trichas occidentalis.

" macgillivrayi.

Setophaga picta.

Cardellina rubrifrons.

Harporhynchus bendirei

" crissalis.

Hauporhynchus lecontei.

" curvirostris palmeri.

Campylorhynchus brunneicapillus.

Catherpes mexicanus conspersus or punctulatus.

Certhia familiaris montana

" " mexicana.

Parus inornatus griseus.

" atricapillus septentrionalis

" meridionalis.

Psaltis plumbeus

" santa-ritae.

Arrepharus flaviceps.

Polioptila caerulea

" plumbea.

Sialia mexicana

" arctica.

